

ABSTRACT

A method and apparatus for the implementation of reduced state sequence estimation is disclosed. , with an increased throughput using precomputation (look-ahead), with
5 only a linear increase in hardware complexity with respect to the look-ahead depth. The present invention limits the increase in hardware complexity by taking advantage of past decisions (or survivor symbols). The critical path of a conventional RSSE implementation is broken up into at least two smaller critical paths using pipeline registers. Various reduced state sequence
10 estimation implementations are disclosed that employ one-step or multiple-step look-ahead techniques to process a signal received from a dispersive channel having a channel memory.

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